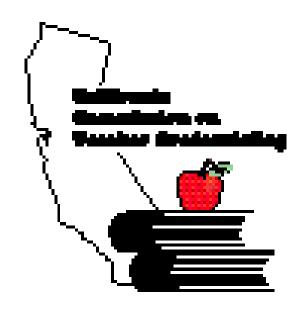
The Multiple Subjects Assessment for Teachers (MSAT)

Preparation References for Credential Candidates



Prepared by Bethany A. Brunsman, Ph.D. Consultant in Teacher Preparation

Professional Services Division California Commission on Teacher Credentialing Updated June 1997

References for MSAT Preparation

The following references are available to credential candidates who plan to take the Multiple Subjects Assessment for Teachers (MSAT). The list is not comprehensive; other resources may also be available. The California Commission on Teacher Credentialing does not recommend or endorse any test preparation guide(s) or any other reference, because the Commission has no information about the effectiveness of references for candidates for professional credentials in California. The Commission provides this list solely as a service to candidates who choose to use it. For the most current information on test registration, test format, and passing scores, please refer to the Praxis Series registration bulletin and the appropriate Tests at a Glance booklet (available at college and university teacher education offices and test centers, the California Commission on Teacher Credentialing, or from Educational Testing Service).

MSAT Bibliography

The references and materials listed on the following pages were recommended by California teacher educators to help you prepare for the MSAT. The MSAT bibliography is organized around the content descriptions of the MSAT. The MSAT content descriptions define the scope of the test and are provided in the Tests at a Glance booklet for the MSAT.

In the bibliography, more general references are listed first. For example, several books are listed under the general heading "MATHEMATICS." Then each area of mathematics (e.g., Number Sense and Numeration, Geometry) has several specific references. In the bibliography, the percentage next to each subject domain indicates what percentage of the questions about that general subject (e.g., mathematics) relate to a particular domain (e.g., Geometry). These percentages can also be found in the <u>Tests at a Glance</u> booklet for the MSAT.

The following suggestions are offered for using the reference list to prepare for the MSAT:

Step #1 Identify the Information the Test Will Cover

Review the test content descriptions provided in the <u>Tests at a Glance</u> booklet for the MSAT.

Step #2 Determine Your Areas of Weakness

You can identify the areas in which study may be most necessary by (1) taking a sample test in a test preparation guide for the MSAT or (2) rating your expertise in the content areas listed in the **Tests at a Glance** booklet for the MSAT. If you have previously taken the MSAT, your score report will also provide information about the areas in which study may be needed.

Step #3 Focus Your Studies and Identify Resources

Identify resources from the reference list in the particular areas in which you have determined you need to study. The books and materials in this list should be available in college/university libraries and bookstores.

BIBLIOGRAPHY

GENERAL REFERENCES

- Hirsh, E. D. (1995). What Your Fourth Grader Needs to Know, New York: Dell Publishing.
- Hirsh, E. D. (1995). What Your Fifth Grader Needs to Know, New York: Dell Publishing.
- Hirsh, E. D. (1994). What Your Sixth Grader Needs to Know, New York: Dell Publishing.

LITERATURE AND LANGUAGE STUDIES (24 multiple choice, 3 short essay)

California State Department of Education (1987). <u>English-Language Arts Framework for California Public Schools</u>, Sacramento, CA: California State Department of Education.

Literature (35%)

- Abcarian, R. & Klotz, M. (Eds.) (1994). <u>Literature: The Human Experience</u>, 6th ed., New York: St. Martin's Press.
- Abrams, M. H. (Ed.) (1993). Norton Anthology of English Literature, Vol. 1, 6th ed., New York: W.W. Norton.
- Baym, N. (Ed.) (1995). Norton Anthology of American Literature, 4th ed., New York: W.W. Norton.
- California State Department of Education (1992). <u>Recommended Readings in Literature: K-8</u>, Sacramento, CA: California State Department of Education.
- Huck, C. S., Hepler, S. (1996). <u>Children's Literature in the Elementary School</u>, 6th ed., Brown & Benchmark.
- Kennedy, J. & Gioia, D. (Eds.) (1995). <u>Literature: An Introduction to Fiction, Poety, and Drama, 6th ed.</u>, New York: Harper Collins.
- Nodelman, P. (1995). <u>Pleasures of Children's Literature</u>, 2nd ed., White Plains, NY: Longman. Perrine, L. (1993). <u>Literature: Structure, Sound, and Sense</u>, 6th ed., Fort Worth: Harcourt Brace Jovanovich.

Language and Linguistics (30%)

- Bloom, L. Z. & White, E. (1993). <u>Inquiry: A Cross-Curricular Reader</u>, Englewood Cliffs, NJ: Prentice Hall.
- Bolton, W. F. & Crystal, D. (Eds.) (1994). <u>The English Language</u>, New York: Penguin Books. Cazort, D. (1992). <u>Under the Grammar Hammer: The Twenty-Five Most Common Mistakes and How to Avoid Them, Lowell House</u>.
- Chaika, E. (1994). Language, The Social Mirror, 3rd ed., Boston: Heinle and Heinle.
- Colombo, G., Cullen, Ř., & Lisle, B. (1995). <u>Rereading America: Cultural Contexts for Critical Thinking and Writing</u>, 3rd ed., Boston: St. Martin's Press.
- Eschholz, P., Rosa, A., & Clark, V. (Eds.) (1993). <u>Language Awareness</u>, 6th ed., New York: St. Martin's Press.
- Finegan, E. (1989). Language: Its Structure and Use, New York: Harcourt Brace.
- Fromkin, V. (1992). An Introduction to Language. 5th ed., Fort Worth: Harcourt Brace.
- O'Grady, W., Dobrovolsky, M., & Aronoff, M. (Eds.) (1993). <u>Contemporary Linguistics: An</u> Introduction, 2nd ed., New York: St Martin's Press.
- Seyler, D. U. (Ed.) (1994). Patterns of Reflections: A Reader, 2nd ed., New York: Macmillan.

Oral and Written Communication (35%)

Cazden, C. B. (1988). <u>Classroom Discourse: The Language of Teaching and Learning</u>, Portsmouth, NH: Heinemann.

Elbow, P. & Belanoff, P. (1994). Sharing and Responding Guide, McGraw Hill.

Holeton, R. (Ed.) (1995). Encountering Cultures: Reading and Writing in a Changing World, 2nd ed., Englewood Cliffs, NH: Prentice Hill.

Klammer, T. P. & Schulz, M. R. (1995). <u>Analyzing English Grammar</u>, Boston: Allyn and Bacon. Kolla, M. (1989). Understanding English Grammar, 4th ed., New York: Macmillan.

Marius, R. (1995). A Writer's Companion, New York: McGraw-Hill.

Pflaum-Connor, S. (1986). <u>The Development of Language and Literacy in Young Children</u>, 3rd ed., MacMillan.

Ruggiero, V. R. (1995). <u>The Art of Thinking: A Guide to Critical and Creative Thinking</u>, 4th ed., Watson-Guptill.

Trelease, J. (1995). The Read Aloud Handbook, 4th ed., New York: Viking Penguin.

MATHEMATICS (24 multiple choice, 3 short essay)

Billstein, R. (1992). <u>A Problem Solving Approach to Mathematics</u>, 5th ed., Reading, MA: Addison-Wesley.

California State Department of Education (1992). <u>Mathematics Framework for California Public Schools: Kindergarten through Grade Twelve</u>, Sacramento, CA: California Department of Education.

Long, C. T. & DeTemple, D. W. (1995). <u>Mathematical Reasoning for Elementary Teachers</u>, Harper Collins College.

Musser, G. L. (1993). <u>Mathematics for Elementary Teachers</u>, 3rd ed., New York: Macmillan. Wheeler, E. R. (1995). <u>Modern Mathematics for Elementary School Teachers</u>, 9th ed., Pacific Grove, CA: Brooks Cole.

Number Sense and Numeration (20%)

Eves, H. (1990). <u>The Foundations and Fundamental Concepts of Mathematics</u>, 3rd ed., Boston: PWS-Kent.

Staszkow, R. & Bradshaw, R. (1991). The Mathematical Palette, Saunders College Publishing

Geometry (20%)

Musser, G. L. (1993). <u>Mathematics for Elementary Teachers</u>, 3rd ed., New York: Macmillan. O'Daffer, P. G. (1992). <u>Geometry: An Investigative Approach</u>, 2nd ed., Reading, MA: Addison-Wesley.

Measurement (5%)

Musser, G. L. (1993). Mathematics for Elementary Teachers, 3rd ed., New York: Macmillan.

Algebraic Concepts (10%)

Herstein, I. N. (1996). <u>Abstract Algebra</u>, 3rd ed., Prentice Hall. Staszkow, R. & Bradshaw, R. (1991). The Mathematical Palette, Saunders College Publishing

Number Theory (10%)

Bunt, L. N., Jones, P. S., & Bedient, J. D. (1988). <u>Historical Roots of Elementary Mathematics</u>, New York: Dover.

Musser, G. L. (1993). Mathematics for Elementary Teachers, 3rd ed., New York: Macmillan.

The Real Number System and Subsystems (20%)

Staszkow, R. & Bradshaw, R. (1991). The Mathematical Palette, Saunders College Publishing

Probability and Statistics (15%)

Bain, L. & Engelhart, M. (1992). <u>An Introduction to Probability and Mathematical Statistics</u>, 2nd ed., Wadsworth.

Musser, G. L. (1993). Mathematics for Elementary Teachers, 3rd ed., New York: Macmillan.

VISUAL AND PERFORMING ARTS (12 multiple choice, 2 short essay)

Aesthetic Perception/Creative Expression (40%) Cultural Heritage (40%)

Aesthetic Valuing (20%)

California State Department of Education (1992). <u>Visual and Performing Arts Framework for California Public Schools: Kindergarten through Grade Twelve</u>, Sacramento, CA: California Department of Education.

Dance

Anderson, J. (1992). <u>Ballet and Modern Dance: A Concise History</u>, 2nd ed., Princeton, NJ: Princeton Book Co.

Music

Dallin, L. & Dallin, L. (1980). Heritage Songster, 2nd ed., Brown & Benchmark.

Levy, K. (1990). Music, A Listener's Introduction, New York: Collins.

Machlis, J. & Forney, K. (1995). <u>The Enjoyment of Music: An Introduction to Perceptive Listening</u>, 7th ed., New York: W.W. Norton.

Nye, R. & Bergethon, B. (1987). <u>Basic Music</u>, 6th ed., Englewood Cliffs, NJ: Prentice Hall. Rozmajzl, M. & Boyer-White, R. (1996). <u>Music Fundamentals</u>, <u>Methods</u>, and <u>Materials for the Elementary Classroom Teacher</u>, 2nd ed., New York: Longman.

Drama/Theater

Brockett, O. G. (1995). The Essential Theatre, 6th ed., Harcourt Brace.

Cohen, R. (1992). Acting One, 2nd ed., Mountain View, CA: Mayfield.

Kernan, A. B. (Ed.) (1965). Classics of the Modern Theatre, New York: Harcourt Brace.

Visual Arts

Gardner, H. D. & Tansey, R. (1995). <u>Gardner's Art Through the Ages</u>, 10th ed., San Diego: Harcourt Brace Jovanovich.

- Hurwitz, A. & Day, M. (1991). <u>Children and Their Art: Methods for the Elementary School</u>, 5th ed., San Diego: Harcourt Brace Jovanovich.
- Janson, H. (1995). History of Art, 5th ed., Prentice Hall.
- Kissick, J. (1995). Art, Context and Criticism, 2nd ed., Madison, WI: Brown & Benchmark.
- Nicolaides, K. (1990). The Natural Way to Draw: A Working Plan for Art Study, Houghton Mifflin.
- Preble, G. (1993). <u>Artforms: An Introduction to the Visual Arts</u>, 5th ed., New York: Harper Collins.
- Warner, S. (1989). <u>Encouraging the Artist in Your Child (Even If You Can't Draw)</u>., New York: St. Martin's Press.

PHYSICAL EDUCATION (8 multiple choice, 2 short essay)

- California State Department of Education (1994). <u>Physical Education Framework for California Public Schools: Kindergarten through Grade Twelve</u>, Sacramento, CA: California Department of Education.
- Graham, G. (1993). <u>Children Moving: A Reflective Approach to Teaching Physical Education</u>, 3rd ed., Mountain View, CA: Mayfield.
- Kirchner, G. (1994). <u>Physical Education for Elementary School Children</u>, 8th ed., Dubuque, IA: W. C. Brown.
- Pangrazi, R. & Dauer, V. (1997). <u>Dynamic Physical Education for Elementary School Children</u>, 3rd ed., New York: Allyn & Bacon.
- Schmidt, R. A. (1991). <u>Motor Learning and Performance: From Principles to Practice</u>, Champaign, IL: Human Kinetics Books.

Movement Concepts and Forms (50%)

- Davis, R. G. (1992). <u>Elementary Physical Education: Growing Through Movement</u>, 3rd ed., Winston-Salem, NC: Hunter Textbooks.
- Gallahue, D. L. (1995). <u>Developmental Physical Education for Today's Children</u>, 3rd ed., Madison, WI: Brown & Benchmark.
- Nichols, B. (1994). Moving and Learning: The Elementary School Physical Education Experience, 3rd ed., St. Louis: Mosby Year Book.
- Gabbard, C., LeBlanc, B., & Lowy, S. (1994). <u>Physical Education for Children: Building the Foundation</u>, 2nd ed., Englewood Cliffs, NJ: Prentice-Hall.
- Wall, J. (1994). <u>Children and Movement: Physical Education in the Elementary School</u>, 2nd ed., Madison, WI: Brown & Benchmark.

Physical and Biological Science (40%)

- Adams, W. C. (1990). <u>Foundations of Physical Education</u>, <u>Exercise</u>, and <u>Sport Sciences</u>, Williams & Wilkins.
- Malina, R. M. & Bouchard, C. (1991). <u>Growth, Maturation, and Physical Activity</u>, Champaigne, IL: Human Kinetics Books.
- McArdle, Katch, Katch, Lea, & Febiger. (1996). <u>Exercise Physiology: Energy, Nutrition, and</u> Human Performance, 4th ed., Lea & Febinger.

Social Science Foundations (10%)

Graham, G. (1993). <u>Children Moving: A Reflective Approach to Teaching Physical Education</u>, 3rd ed., Mountain View, CA: Mayfield.

Pangrazi, R. & Dauer, V. (1994). <u>Dynamic Physical Education for Elementary School Children</u>, 11th ed., New York: MacMillan Pub. Co.

HUMAN DEVELOPMENT (8 multiple choice, 2 short essay)

- Berger, K. S. (1993). <u>The Developing Person Through the Life Span</u>, 3rd ed., New York: Worth Publishers.
- Cole, M. & Cole, S. (1995). The Development of Children, 2nd ed., Freeman & Company.
- Gleason, J. B. & Berko (Eds.) (1993). The Development of Language, 4th ed., Allyn & Bacon.
- Salkind, N. J. (1994). Child Development, 6th ed., Harcourt Brace.
- Seifert, K. & Goffnung, R. (1993). Child and Adolescent Development, 3rd ed., Boston: Houghton Mifflin.
- Shaffer, D. (1993). <u>Developmental Psychology: Childhood and Adolescence</u>, 4th ed., Pacific Grove, CA: Brooks/Cole.
- Steinberg, L. D. & Belsky, J. (1991). <u>Infancy, Childhood, and Adolescence: Development in</u> Context, New York: McGraw-Hill.
- Zigler, E.F., & Stevenson, M.F. (1993). <u>Children in a Changing World: Development and Social</u> Issues, 2nd ed., Pacific Grove, CA: Brooks/Cole.

Implications/Applications of Theory (20%)

- Fisher, C. B. & Lerner, R. M. (1993). <u>Applied Developmental Psychology</u>, New York: McGraw-Hill
- Papalia, D. & Olds, S. W. (1996). <u>A Child's World: Infancy Through Adolescence</u>, 7th ed., New York: McGraw Hill
- Shaffer, D. (1996). <u>Developmental Psychology: Childhood and Adolescence</u>, 4th ed., Pacific Grove: Brooks/Cole.
- Thomas, R. M. (1996). <u>Comparing Theories of Child Development</u>, 4th ed., Pacific Grove: Brooks/Cole.
- Vygotsky, L. S. (1996). Thought and Language, Cambridge, MA: MIT Press.
- Wadsworth, B. J. (1996). <u>Piaget's Theory of Cognitive and Affective Development</u>, 5th ed., New York: Longman.

Implications/Applications of Research (30%)

Dworetzky (1996). Introduction to Child Development, 6th ed., St. Paul: West Pub. Co..

Ennis, R. H. (1995). Critical Thinking, Upper Saddle River, NJ: Prentice Hall.

Moore, B. J. & Parker, R. (1994). Critical Thinking, Palo Alto, CA: Mayfield.

Zimbardo, P. C. (1992). Psychology and Life, 14th ed., New York: Harper Collins.

Major Developmental Perspectives (15%)

- Berger, K. S. (1991). <u>The Developing Person Through Childhood and Adolescence</u>, 4th ed., New York: Worth Publishers.
- Hardman, M. L., Drew, C. J., & Egan, M. W. (1995). <u>Human Exceptionality: Society, School</u> and Family, 5th ed., Boston, MA: Allyn and Bacon.

Gathering and Using Information (10%)

Cozby, P.C., Worden, P.E., & Kee, D.W. (1989). <u>Research Methods in Human Development</u>, Mountain View, CA: Mayfield.

Zimmerman, M. (1995). <u>Science, Nonscience, and Nonsense: Approaching Environmental</u> Literacy, Baltimore: John Hopkins University Press.

Human Diversity (25%)

- Banks, J. (1990). Teaching Strategies for Ethnic Studies, 5th ed., Boston: Allyn & Bacon.
- Cushner, K. & Safford, P. (1992). <u>Human Diversity in Education: An Integrative Approach</u>, New York: McGraw-Hill.
- Takaki, R. (1993). A Different Mirror, Boston: Little, Brown & Co.
- Zigler, E.F., & Stevenson, M.F. (1993). <u>Children in a Changing World: Development and Social Issues</u>, 2nd ed., Pacific Grove, CA: Brooks/Cole.

HISTORY/SOCIAL STUDIES (22 multiple choice, 3 short essay)

California State Department of Education (1988). <u>History-Social Science Framework for California Public Schools: Kindergarten through Grade Twelve</u>, Sacramento, CA: California Department of Education.

<u>History</u>: all questions in the History/Social Studies area require knowledge of history except for one question that has a nonhistorical perspective.

U. S. History (50%)

- Bailey, T. A. (1994). <u>The American Pageant: A History of the Republic</u>, 10th ed., Lexington, MA: Heath.
- Bailyn, B., et al. (1992). <u>The Great Republic: A History of the American People</u>, Vol. I, D.C. Heath.
- Davidson, J. W. et al. (Ed.) (1996). <u>Nation of Nations: A Narrative History of the American</u> Republic, New York: McGraw-Hill.
- Divine, R. A., Breen, et al. (1994). <u>America, Past and Present, Vol. 1</u>, Brief 3rd ed., New York: Harper Collins.
- Garraty, J. A. (1994). <u>The American Nation: A History of the United States</u>, 8th ed., New York: Harper Collins.
- Merchant, C. (Ed.). (1993). <u>Major Problems in American Environmental History: Documents and Essays</u>, Lexington, MA: D. C. Heath.
- Morison, S. E. (1994). The Oxford History of the American People, Vol. 2: 1789 Through the Reconstruction, New York: Meridan.
- Nash, G. B., et al. (1996). <u>The American People: Creating a Nation and a Society</u>, 2nd ed., New York: Harper Collins.
- Rawls, J. J. (1993). California Interpretive History, 6th ed., New York: McGraw-Hill.
- Reich, J. R. (1989) Colonial America, Englewood Cliffs, NJ: Prentice Hall.

World History (45%)

- Bailkey, N. M. (1992). <u>Readings in Ancient History: Thought and Experience from Gilgamesh to St. Augustine</u>, 4th ed., Lexington, MA: D.C. Heath.
- Barraclough, G. (1992). <u>The Times Concise Atlas of World History</u>, 4th ed., London: Times Books.
- Esler, A. (1992). <u>The Human Venture: The Globe Encompasses: A World History Since 1500</u>, 2nd ed., Englewood Cliffs, NJ: Prentice Hall.

Lerner, R. E. (1993). Western Civilizations: Their History and Their Culture, New York: Norton. McKay, J. P. (1992). A History of World Societies, 3rd ed., Boston: Houghton Mifflin. Reilly, K. (1992). Readings in World Civilizations, 2nd ed., New York: St Martin's Press. Riley, P. F. (1992). The Global Experience, Englewood Cliffs, NJ: Prentice Hall. Spielvogen, J. J. (1994). Western Civilization, Minneapolis/St. Paul: West Pub. Co.

<u>Social Sciences</u>: most questions in the History/Social Studies area require knowledge of social science as well as history. For those questions that require knowledge of both history and social science, the approximate percentages that require knowledge in each social science area are given below.

Government and Politics (20%)

Ambrose, S. (1993). <u>Rise to Globalism: American Foreign Policy Since 1938</u>, 7th ed., New York: Penguin Books.

Janda, K., Berry, J., & Goodman, J. (1995) The Challenge of Democracy, Houghton Mifflin.

Geography (35%)

Brown, L. R. (Ed.). (1996). State of the World, 1996, NY: Norton.

De Blij, H. J. (1995). Geography: Realms, Regions, and Concepts, 7th ed., New York: Wiley.

Geography for Life: National Geography Standards 1994 (1994). Diane Publishing Co.

Goode, J. P. (1995). Goode's World Atlas, 19th ed., Chicago: Rand McNally & Co.

Hardwick, S. W. & Holtgrieve, D. G. Geography for Educators: Standards, Themes, and Concepts, Prentice Hall.

Jordan, T. G. (1993). <u>The Human Mosaic: A Thematic Introduction to Cultural Geography</u>, 6th ed., New York: Harper Collins.

MacKinnon, R. M. (1995). <u>World Place Location Learning System</u>, 7th ed., Santa Maria, CA: Allan Hancock College.

Miller, C. S. & Hyslop, R. S. (1983). California: The Geography of Diversity, Mayfield.

Paterson J. H. (1993). North America: A Geography of the United States and Canada, 9th ed., New York: Oxford University Press.

Rand McNally (1995). Quick Reference World Atlas With Map, Rand McNally & Co.

Economics (25%)

Demmert, H. (1996). Economics, 2nd ed., Harcourt Brace.

Demmert, H. (1990). Economics: Understanding the Market Process, Dryden Press.

Anthropology and Sociology (20%)

Haviland (1996). Cultural Anthropology, 8th ed., Harcourt Brace Jovanovich

SCIENCE (22 Multiple choice, 3 short essay)

California State Department of Education (1990). <u>Science Framework for California Public Schools: Kindergarten through Grade Twelve</u>, Sacramento, CA: California Department of Education.

Rezba (1996). Learning Science Process Skills, 3rd ed., Dubuque, IA: Kendall/Hunt.

Biology (33-34%)

Arms, K. & Camp, P. S. (1994). Biology, A Journey Into Life, 3rd ed., Harcourt Brace.

Camp, P. S. & Camp, K. (1984). Exploring Biology, Philadelphia: Saunders College Publishing.

Castro, P. & Huber, M. E. (1996). Marine Biology, Wm. C. Brown.

Levine, J. S. (1994). Biology: Discovering Life, 2nd ed., Lexington, MA: D. C. Heath.

Mader, S. S. (1995). Biology, 5th ed., Dubuque, IA: W. C. Brown.

Mader, S. S. (1993). Inquiry into Life, 7th ed., Dubuque, IA: W. C. Brown.

Starr, C. (1994). Biology: Concepts and Applications, 2nd ed., Belmont, CA: Wadsworth.

Starr, C. & McMillan, B. (1995). <u>Human Biology</u>, Belmont, CA: Wadsworth.

Geoscience (33-34%)

Arms, K. (1996). Environmental Science, 3rd ed., Holt.

Chaisson, E. & McMillan, S. (1995). <u>Astronomy Today</u>, 2nd ed., Upper Saddle River, NJ: Prentice Hall.

Christopherson, R. W. (1993). <u>Geosystems: An Introduction to Physical Geography</u>, 2nd ed,. New York: Macmillan.

Gross, M. G. (1993). Oceanography, 7th ed., Englewood Cliffs, MJ: Prentice Hall.

Hamblin, W. K. & Christophersen, E. H. (1994). <u>Earth's Dynamic Systems</u>, 7th ed., New York: Macmillan.

Pasachoff, J. M. (1994). <u>Astronomy, From the Earth to the Universe</u>, 5th ed., Fort Worth: W. B. Saunders.

Plummer, C. C. (1995). <u>Physical Geology With Interactive Plate Tectonics</u>, 7th ed., Dubuque, IA: Wm. C. Brown.

Skinner, B. & Porter, S. (1995). <u>The Dynamic Earth: An Introduction to Physical Geology</u>, 3rd ed., New York: Wiley.

Tarbuck, T. J. & Lutgens (1994). Earth Science, 7th Ed., MacMillan.

Thompson, G. R. & Turk, J. (1994). <u>Earth Science and the Environment</u>, Fort Worth: Harcourt Brace Jovanovich.

Physical Sciences (33-34%)

Brown, T. L., Lemay, T., & Bursten, B. (1996). <u>Chemistry: The Central Science</u>, 7th ed., Englewood Cliffs, NJ: Prentice Hall.

Flavin, C. & Lenssen, N. (1994) Power Surge, New York: W. W. Norton.

Hazen, R. M. & Trefil, J. (1995). <u>The Physical Sciences: An Integrated Approach</u>, New York: Wiley.

Hein, M. et al. (1993). College Chemistry: An Introduction to General, Organic, and Biochemistry, 5th ed., Pacific Grove, CA: Brooks/Cole.

Hewitt, P. (1992). Conceptual Physics, 7th ed. New York: Harper Collins.

Hill, J. W. (1992). Chemistry for Changing Times, 7th ed., New York: Macmillan.

Hollander, J. (Ed.). (1992). <u>The Energy-Environment Connection</u>, Washington, DC: Island Press.

Krauskopf, K. B. (1992). The Physical Universe, 7th ed., New York: McGraw-Hill.

Shipman, J. T., Wilson, J. D., & Todd, A. W. (1993). An Introduction to Physical Science, 7th ed., Lexington, MA: Heath.

Tillery, B. W. (1996). Physical Science, Dubuque, IA: W.C. Brown.

MSAT Preparation Guides

Bobrow, Jerry (1995). MSAT. Cliffs Notes, \$24.95.

Sia, Archibald et al. (1995). <u>Best Test Preparation for the MSAT</u>. Research and Education Association (REA), \$22.95.

Other Sources of Information on the MSAT:

The Praxis Series Educational Testing Service P. O. Box 6051 Princeton, NJ 08541-6051 (800) 772-9476 or (609) 771-7395 The California Commission on Teacher
Credentialing
P. O. Box 944270
Sacramento, CA 94244-2700
http://www.ctc.ca.gov
(916) 445-7254
(Automated information system available 24 hours daily. Certification staff available 12:30 to 4:30 workday afternoons.)